

# Energy Recovery & Dehumidification Wheel Repair and Replacement

Turnkey wheel replacement engineered to restore peak performance — without replacing the entire unit.

## OVERVIEW

When an energy recovery or desiccant dehumidification wheel fails, replacing the entire air-handling unit or cassette is often impractical. NovelAire Technologies provides a smarter solution — custom-manufactured replacement wheels built to your exact specifications, with complete installation supervision and labor for a true turnkey experience.

As a leading manufacturer of energy conservation and desiccant dehumidification wheels for the HVAC industry, NovelAire serves both the OEM market and end-users requiring field replacement of damaged or worn wheels from virtually any manufacturer.

## KEY ADVANTAGES

- Drop-in replacement for most wheel manufacturers' products
- Custom-manufactured to match existing cassette dimensions
- Available in sizes up to 12 feet in diameter
- Complete turnkey installation — supply, delivery, and labor
- Upgrade to NovelAire's high-performance wheel technology
- One-year limited warranty

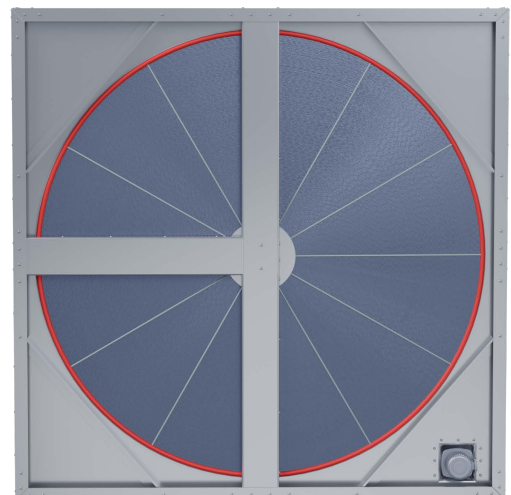
## TYPICAL APPLICATIONS

- Hospitals
- Schools
- Laboratories
- Office Buildings

## HOW IT WORKS

NovelAire custom-fabricates a segmented wheel to the required dimensions, fully assembles and verifies fit in our facility, then carefully breaks it down and crates it for shipment. Our technicians rebuild the wheel in place using the existing cassette structure:

- Install hub, shaft, and bearing assembly onto the existing frame
- Attach spokes and lock media segments into position
- Secure the outer band to tie the full assembly together
- Replace seals and recondition or replace the drive train as needed



## NOVELAIRE REPLACEMENT WHEELS

### ECW

Total Energy Recovery Wheel

Recovers both sensible and latent energy for maximum HVAC efficiency.

### SEW

Sensible Energy Wheel

Recovers sensible energy only —ideal for climates with lower latent loads.

### WSG

Silica Gel Desiccant Wheel

Used as a regenerative wheel in desiccant dehumidification applications.

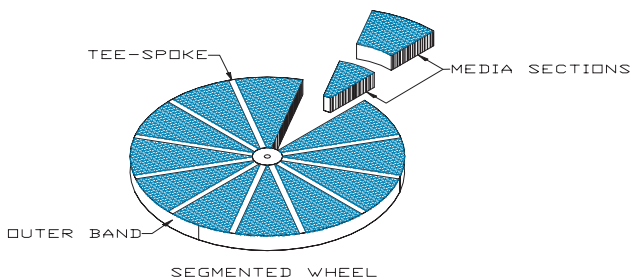
### NOVELAIRE WHEEL MEDIA

Corrosion Resistant — Synthetic media is fully corrosion-resistant for long service life.

Permanent Bond — Desiccant is permanently bonded within homogeneous media — will not delaminate.

Superior Durability — Media segments are stronger and more durable than aluminum alternatives.

### SEGMENTED CONSTRUCTION



### PROJECT PROCESS

- 1 Contact NovelAire — Reach out for an initial assessment and estimate.
- 2 Site Visit — Precise measurements taken where drawings are unavailable.
- 3 Custom Manufacture — Wheel fabricated and fully assembled in our facility to verify fit.
- 4 Shipment — Broken into segments, crated, and delivered to the job site.
- 5 Installation — NovelAire technicians rebuild in place; seals and drive train serviced as needed.
- 6 Warranty — All replacement wheels backed by a one-year limited warranty.

### READY TO GET STARTED?

Contact NovelAire to schedule a site visit and receive a project estimate. Our engineering team is ready to help you specify the right replacement wheel and restore your system to peak performance.

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